WHAT IS CLAIMED IS:

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1. An image printing apparatus which includes a plurality of image printing means for printing images of different colors and prints a color image by superimposing, on a single image printing medium, a plurality of images of the respective colors printed by the plurality of image printing means, comprising:

test image printing means for printing, on the image printing medium, test images for correcting a positional offset between images of the respective colors;

correction amount deriving means for deriving a positional offset correction amount for the images of the respective colors by measuring the test images printed on the image printing medium;

correction means for correcting a printing position of an image printed by said each image printing means; and

control means for controlling a series of correcting operations for correcting a positional offset between the images of the respective colors,

wherein said control means executes the correcting operation in a first stage and a second stage, corrects a positional offset on a pixel basis in the first state until the positional offset correction amount reaches a predetermined target range, and corrects a positional offset including a correction amount less than a pixel unit in the second stage.

2. An apparatus according to claim 1, wherein said

control means derives a correction amount by executing printing and measurement of the test images in the first stage, and performs correction in the second stage on the basis of a correction amount left unprocessed in the first stage.

- 3. An apparatus according to claim 1, wherein a time required for correction on a pixel basis is shorter than a time required for correction with an amount less than a pixel unit.
- 10 4. An apparatus according to claim 1, wherein correction with an amount less than the pixel unit is performed by surface phase control on polygon mirrors.
 - 5. An image printing apparatus which includes a plurality of image printing means for printing images of different colors and prints a color image by superimposing, on a single image printing medium, a plurality of images of the respective colors printed by the plurality of image printing means, comprising:

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test image printing means for printing, on the image printing medium, test images for correcting a positional offset between images of the respective colors;

correction amount deriving means for deriving a positional offset correction amount for the images of the respective colors by measuring the test images printed on the image printing medium;

correction means for correcting a printing position of an image printed by said each image printing means; and

control means for controlling a series of correcting operations for correcting a positional offset between the images of the respective colors,

wherein after deriving a positional offset correction amount by printing and measuring test images, said control means repeatedly executes correction of a printing position of an image on the basis of the positional offset correction amount, corrects a positional offset of an image on a pixel basis while the derived positional offset correction amount has not reached a predetermined target range, and corrects a printing position of an image including a correction amount less than a pixel unit when the positional offset correction amount has reached the target range.

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- 15 6. An apparatus according to claim 5, wherein while the positional offset correction amount has not reached the target range, said control means corrects the positional offset of the image on a pixel basis by repeatedly printing the test images, measuring the test images, deriving the positional offset correction amount, and correcting a printing position of an image.
 - 7. An apparatus according to claim 5, wherein said control means finishes a series of correcting operations by executing correction including a correction amount less than the pixel unit.
 - 8. An apparatus according to claim 5, wherein a time required for correction on a pixel basis is shorter than a

time required for correction with an amount less than a pixel unit.

- 9. An apparatus according to claim 5, wherein correction with an amount less than the pixel unit is performed by surface phase control on polygon mirrors.
- 10. A color misregistration correction method in an image printing apparatus which includes a plurality of image printing means for printing images of different colors and prints a color image by superimposing, on a single image printing medium, a plurality of images of the respective colors printed by the plurality of image printing means, comprising:

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executing color misregistration correction in a first stage and a second stage after the first stage;

15 correcting a positional offset on a pixel basis in the first stage until a positional offset correction amount for images of the respective colors reaches a predetermined target range; and

correcting a positional offset including a positional 20 offset correction amount less than a pixel unit in the second stage.

11. A color misregistration correction method in an image printing apparatus which includes a plurality of image printing means for printing images of different colors and prints a color image by superimposing, on a single image printing medium, a plurality of images of the respective colors printed by the plurality of image

printing means, comprising the steps of:

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- (a) printing, on the image printing medium, test images for correcting a positional offset between images of the respective colors;
- (b) deriving a positional offset correction amount for the images of the respective colors by measuring the test images;
 - (c) correcting a positional offset between the images of the respective colors on the basis of the positional offset correction amount;
 - (d) repeating the steps (a) to (c) until the positional offset correction amount reaches a predetermined target range; and

correcting the positional offset between the images

of the respective colors including a positional offset with

an amount less than a pixel unit when the positional offset

correction amount reaches the target range.

- 12. A method according to claim 11, wherein a time required for correction on a pixel basis is shorter than a time required for correction with an amount less than a pixel unit.
- 13. A method according to claim 11, wherein correction with an amount less than the pixel unit is performed by surface phase control on polygon mirrors.